

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../21 with screw connection and plug-in miniature relay with power contact, for assembly on DIN rail NS 35/7,5, 1 changeover contact, input voltage 125 V DC

Commercial data

Item number	2980021
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	C461
Product key	CK6226
GTIN	4017918608446
Weight per piece (including packing)	39.65 g
Weight per piece (excluding packing)	33.94 g
Customs tariff number	85364900
Country of origin	DE

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Technical data

Product properties

Product type	Relay Module
Product family	PLC-INTERFACE
Application	Universal
Operating mode	100% operating factor
Mechanical service life	approx. 10^7 cycles

Data management status

Date of last data management	09.12.2024
------------------------------	------------

Electrical properties

Maximum power dissipation for nominal condition	0.38 W
Test voltage (Winding/contact)	4 kV AC (50 Hz, 1 min., winding/contact)

Insulation characteristics: Coil/contact

Rated insulation voltage	250 V
Rated impulse withstand voltage	6 kV
Overvoltage category	III
Degree of pollution	3

Input data

Coil side

Nominal input voltage U_N	125 V DC
Input voltage range	96.3 V DC ... 175 V DC (20 °C)
Nominal voltage (plugged-in electromechanical relay)	60 V DC
Drive and function	monostable
Drive (polarity)	polarized
Typical input current at U_N	3 mA
Typical response time	5 ms
Typical release time	8 ms
Protective circuit	Reverse polarity protection; Polarity protection diode
	Freewheeling diode; Freewheeling diode
Operating voltage display	Yellow LED

Output data

Switching

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



	carried out with FBST 8-PLC... or ...FBST 500...)
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	6 A
Maximum inrush current	10 A (4 s)
Min. switching current	10 mA (12 V)
Short-circuit current	200 A (conditional short-circuit current)
Interrupting rating (ohmic load) max.	140 W (at 24 V DC) 20 W (at 48 V DC) 18 W (at 60 V DC) 23 W (at 110 V DC) 40 W (at 220 V DC) 1500 VA (for 250 V AC)
Output fuse	4 A gL/gG NEOZED
Switching capacity	2 A (at 24 V, DC13) 0.2 A (at 110 V, DC13) 0.1 A (at 220 V, DC13) 3 A (at 24 V, AC15) 3 A (at 120 V, AC15) 3 A (at 230 V, AC15)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 2.5 mm ² 0.2 mm ² ... 2.5 mm ² (Single ferrule) 2x 0.5 mm ² ... 1.5 mm ² (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.6 Nm ... 0.8 Nm

Dimensions

Width	6.2 mm
Height	80 mm
Depth	94 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0 (Housing)

Environmental and real-life conditions

Ambient conditions	
Degree of protection (Relay base)	IP20 (Relay base)
Ambient temperature (operation)	-40 °C ... 60 °C

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Ambient temperature (storage/transport)

-40 °C ... 85 °C

Approvals

CE

Certificate

CE-compliant

UKCA

Certificate

UKCA-compliant

Shipbuilding approval

Certificate

TAE0000196

Corrosive gas test

Identification

ISA-S71.04. G3 Harsh Group

EN 60068-2-60

Temperature

D

Humidity

A

Vibration

B/C

EMC

B

Enclosure

Required protection according to the Rules shall be provided upon installation on board

EMC data

Electromagnetic compatibility

Conformance with EMC directive

Low Voltage Directive

Conformance with Low Voltage Directive

Standards and regulations

Standards/regulations

IEC 60947-5-1

Mounting

Mounting type

DIN rail mounting

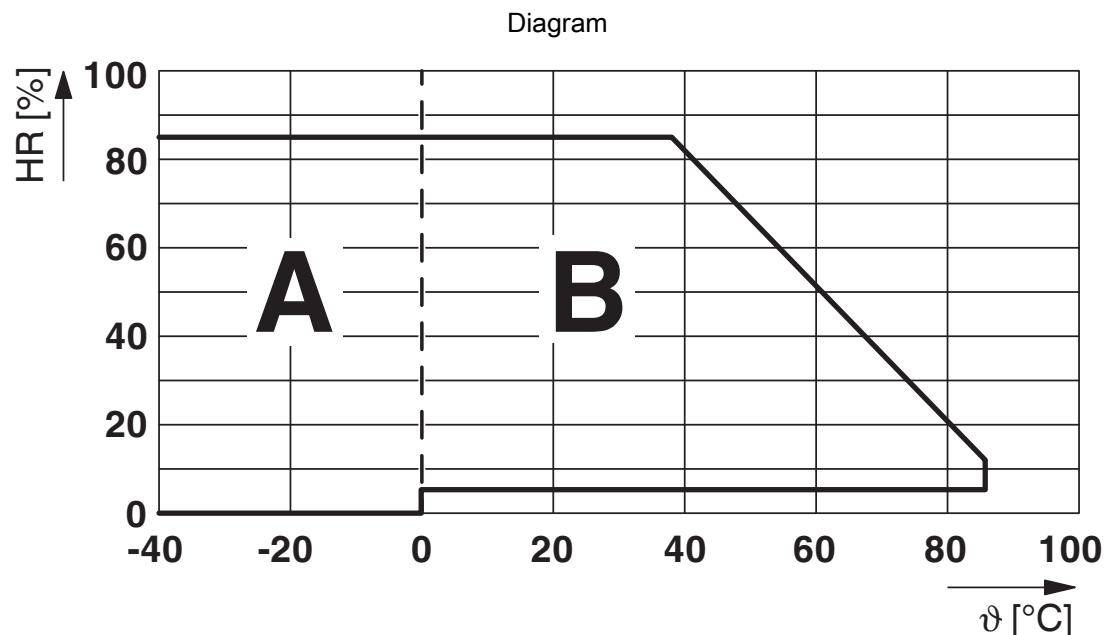
Assembly note

in rows with zero spacing

Mounting position

any

Drawings



Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures $\leq 0^{\circ}\text{C}$ must be prevented

Area B: Condensation at ambient temperatures $> 0^{\circ}\text{C}$ must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature $\leq 25^{\circ}\text{C}$.

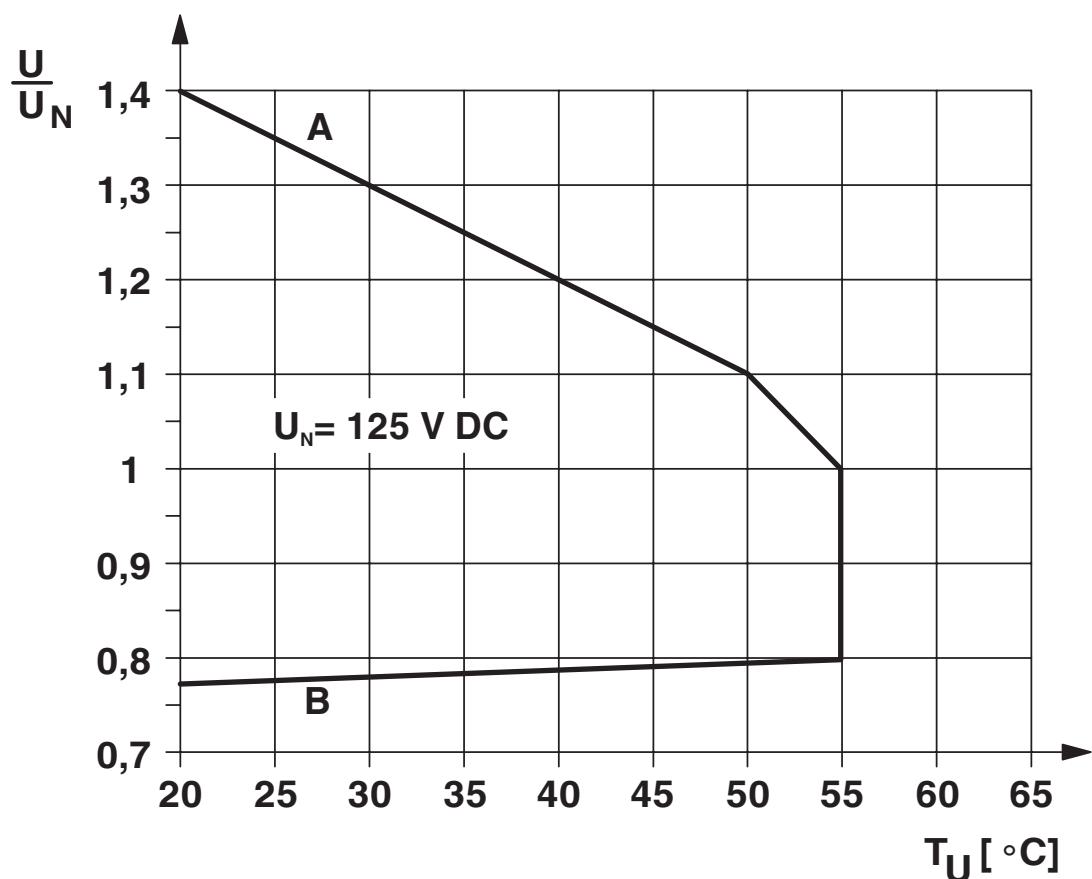
PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Diagram



Operating voltage range

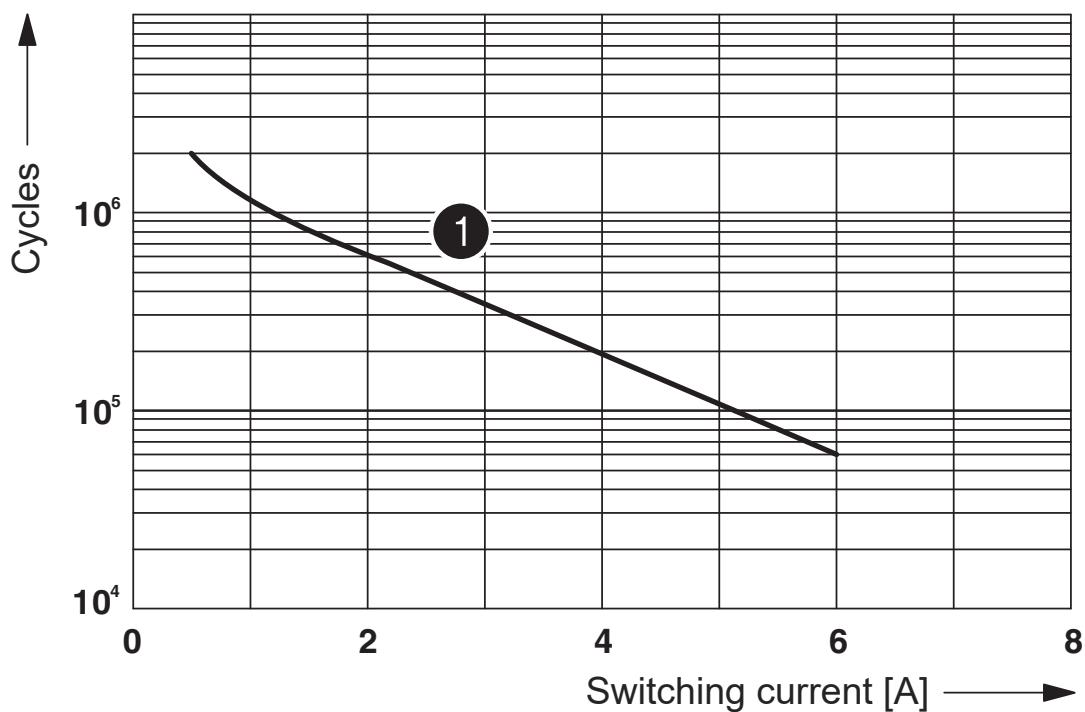
PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



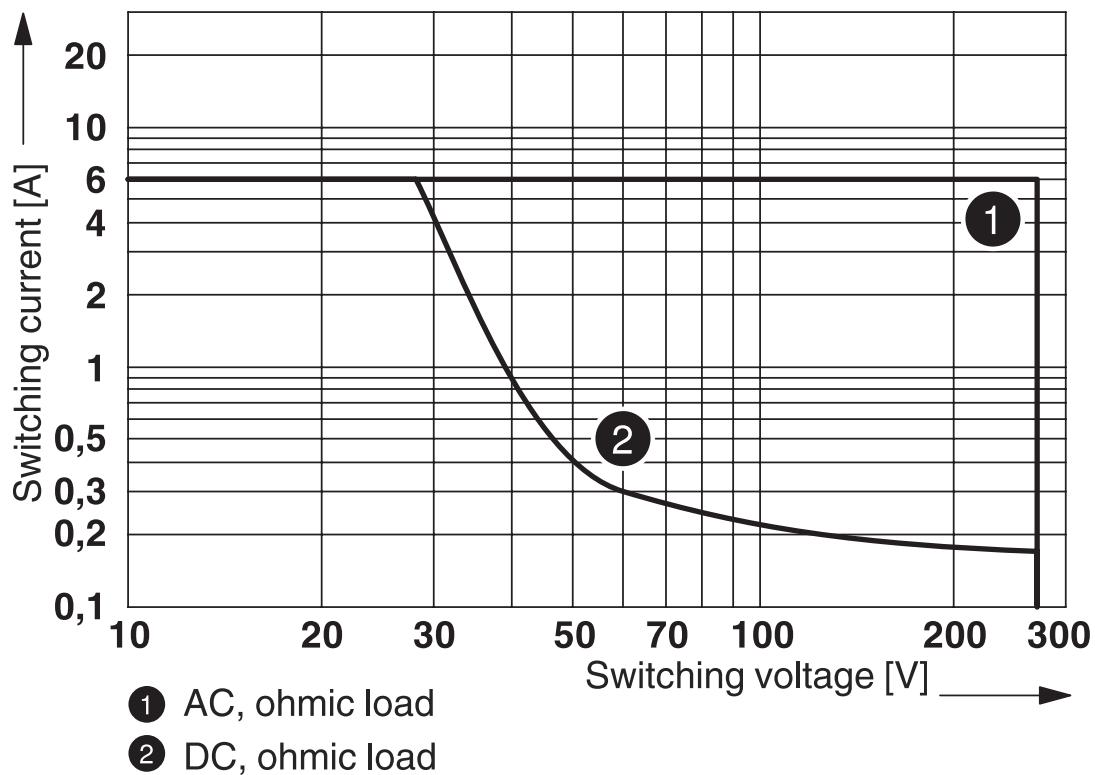
Diagram



① 250 V AC, ohmic load

Electrical service life

Diagram



Interrupting rating

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2980021>



EAC

Approval ID: RU*C-DE.*08.B.00010



DNV GL

Approval ID: TAE0000196



cULus Listed

Approval ID: E140324

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Classifications

ECLASS

ECLASS-11.0	27371601
ECLASS-12.0	27371601
ECLASS-13.0	27371601

ETIM

ETIM 9.0	EC001437
----------	----------

UNSPSC

UNSPSC 21.0	39122300
-------------	----------

PLC-RSC-125DC/21 - Relay module

2980021

<https://www.phoenixcontact.com/us/products/2980021>



Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	d607c469-2b1e-461c-892b-67d2b3bad410

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA

586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com